



19
Suppl. B
Copy
7-31-01

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

In re the Application of:

Herzel LAOR

Serial No.: 09/301,989

Unit: 3641

Filed: April 29, 1999

Examiner: Mun, K.

For: METHOD AND APPARATUS FOR CONDENSING A BOSE-EINSTEIN CONDENSATE OF ATOMS

Box AF

Assistant Commissioner for Patents
Washington, D.C. 20231

AMENDMENT PURSUANT TO 37 CFR 1.114 (REQUEST FOR CONTINUED EXAMINATION)

Responsive to the Office Action dated February 21, 2001, Applicant's representative hereby requests examination of the claims presented below pursuant to Applicant's Request for Continued Examination file herewith.

In the Claims:

Please cancel claims 1-58

Please add claims 59-67 as follows.

59. A process for compressing atoms within a Bose-Einstein condensate comprising:
providing a Bose-Einstein condensate comprised of multiple ^4He atoms, wherein at least two of the ^4He atoms within the Bose-Einstein condensate are co-located;
focusing a beam having a pulse length of less than 1×10^{-15} second on the Bose-Einstein condensate such that the co-located at least two ^4He atoms compress to form a ^8Be isotope.

b/1
Cont